

# A Quick Look at Live, Attenuated Influenza Vaccine, Quadrivalent (LAIV4)

## Indications for Use and Schedule

- LAIV4 (intranasal) is for persons aged 2 years through 49 years who:
  - Are healthy and are not pregnant
- Begin vaccinating as soon as flu vaccine is available and continue throughout the flu season (until vaccine is expired).

## Use of LAIV4<sup>1</sup>

\*When both LAIV4 and Inactivated Influenza Vaccines (IIV3 or IIV4) are available, LAIV4 is preferred for healthy children aged 2 through 8 years who have no contraindications or precautions to LAIV4.

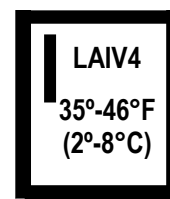
- If LAIV4 is not available, IIV3 or IIV4 should be used. Vaccination should not be delayed!
- For persons aged 9 years & older, there is no preference between LAIV4, IIV3 & IIV4.

## LAIV4 Administration

- Administer intranasal 0.2 mL
  - Spray 0.1 mL into each nostril as indicated by dose-divider clip on sprayer
  - Use 0.2 mL dose for all ages 2-49 years
- Can be given with all other vaccines.
- If LAIV4 is not given on the same day as other live vaccines (MMR, VAR, and MMRV), must be separated by 28 days.

## Storage and Handling

- Store in the refrigerator unit
- Do NOT freeze
- Keep in original box with lid on
- Do NOT use expired vaccine
  - LAIV4 expiration dates differ from other flu vaccine dates



## Information on 2-Dose Influenza Vaccine Pediatric Rule for Children aged 6 Months through 8 Years

- Because the vaccine strains are the same, children aged 6 months through 8 years who received at least 1 dose of 2013-14 seasonal flu vaccine from July 1, 2013 through June 30, 2014 only need 1 dose of 2014-15 seasonal flu vaccine.
  - However, some children in this age group may require 2 doses of flu vaccine to best protect them (separated by at least 4 weeks).
  - To determine who needs 2 doses, refer to “Who Needs 2 Doses of 2014-15 Seasonal Influenza Vaccine?” at [www.michigan.gov/flu](http://www.michigan.gov/flu)
- Remember, when assessing a child’s flu vaccine history to determine if one or two doses are needed, only review flu vaccine doses given prior to July 1, 2014 (do not include doses received during the 2014-15 flu season).

## Contraindications (Persons who should not receive LAIV4)

- Serious allergic reaction (e.g. anaphylaxis) to a previous dose of flu vaccine or one of its components
- Aged less than 2 years or older than 49 years
- Pregnant
- Immunosuppression from any cause
- Persons with egg allergy\*\*
- Children aged 2-4 years with a history of asthma or recurrent wheezing within the past 12 months
- Children receiving long-term aspirin therapy
- Received flu antivirals within past 48 hours

## Precautions (In certain circumstances persons may receive LAIV4)

- Aged 5 years and older with asthma
- Medical conditions that put them at higher risk for complications due to influenza, e.g., chronic pulmonary, cardio, renal or metabolic disorders (diabetes)
- Persons who care for severely immunosuppressed persons requiring a protective environment should not receive LAIV, or avoid contact for 7 days after receiving LAIV
- Moderate or severe acute illness with or without fever
- History of Guillain-Barré Syndrome (GBS) within 6 weeks of a previous influenza vaccination

**\*\*Note:** For persons who report an egg allergy: give Recombinant Influenza Vaccine, trivalent (RIV3) to those aged 18-49 years if available **or** determine if it is safe to give Inactivated Influenza Vaccine, trivalent (IIV3) or quadrivalent (IIV4).

- Refer to: “Influenza Vaccine Screening Algorithm for Persons who Report an Egg Allergy” available at [www.michigan.gov/flu](http://www.michigan.gov/flu)

## Further points to consider

- Healthcare personnel who are pregnant or have chronic medical conditions other than severe immunosuppression can administer LAIV4.
- LAIV4 should not be given with antiviral medications; give IIV. For further information: [www.cdc.gov/flu](http://www.cdc.gov/flu).
- LAIV4 may be given on the same day as a TB test (PPD). If not same day, wait at least 4 weeks after LAIV4 to administer the PPD test.
- Document LAIV4 doses in Michigan Care Improvement Registry (MCIR) on the “Add Imm” screen under “Vaccine” as:
  - “Influenza LAIV4 (FluMist)” and on the vaccine administration record & record card as “LAIV4”
- Use the current LAIV4 VIS, including information about MCIR. The Michigan VIS is posted at [www.michigan.gov/immunize](http://www.michigan.gov/immunize).
- For additional information on Inactivated Influenza Vaccine refer to: “A Quick Look at Using Inactivated Influenza Vaccines (trivalent and quadrivalent): IIV3, IIV4, IIV3 ID, IIV3 High Dose, posted at [www.michigan.gov/immunize](http://www.michigan.gov/immunize) (under Health Care Professionals/Providers).

<sup>1</sup>For further guidance on the influenza recommendations and the preference for LAIV4 refer to the “Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the ACIP, U.S., 2014-15 Influenza Season,” MMWR, Vol. 63(32); 691-697 8/15/14 located at <http://www.cdc.gov/vaccines>.